

## **Section K**

### ***Site Integration***

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## INTRODUCTION

Site Integration consists of Project Baseline Summary (PBS) RL-SS01, Work Breakdown Structure (WBS) 3.4.1 (except for 3.4.1.3, 3.4.1.7, and 3.4.1.8). The five sub-projects addressed in Section K are:

- Planning and Integration (WBS 3.4.1.1)
- Environmental Compliance Program (WBS 3.4.1.2)
- Systems Engineering and Integration (WBS 3.4.1.4)
- Information Resource Management (WBS 3.4.1.5)
- Training (WBS 3.4.1.6)

NOTE: Unless otherwise noted, all information contained herein is as of the end of February 2002.

There are no milestones (EA, DOE-HQ, or RL) in Fiscal Year (FY) 2002 for this PBS.

## NOTABLE ACCOMPLISHMENTS

### PLANNING & INTEGRATION (P&I) WBS 3.4.1.1

**Baseline/Funding Management Summary (BFMS) (also known as the Decision Tool)** — P&I began producing our BFMS in March. RL-Mission Planning Division (MPD) reviewed the drafts in February. Their input was incorporated and the updated product will be delivered in March. The BFMS currently has three reports; FY 2002, Life Cycle and Change Control Log. The FY 2002 report is at WBS Level 4 and contains fiscal year to date (FYTD) cost (budgeted cost of work scheduled [BCWS], budgeted cost of work performed [BCWP], actual cost of work performed [ACWP], budget at completion [BAC]), Forecasts (fiscal year spending forecast [FYSF], anticipated funding from RL, and FH internal funds ceilings), and Contract to Date (BCWS, BCWP, ACWP, schedule variance [SV], cost variance [CV] and contract funds). The Life Cycle report is at WBS Level 3 and includes Baseline (BAC for FY03-06), Contract Funding (FY01-06), and Lifecycle Baseline (FY97-46). The Change Control report is at WBS Level 4. The initial report reconciled from the September 30, 2001 integrated baseline up through January. Follow-on reports will show the current month approved/implemented BCRs and pending BCRs.

**Integrated Planning, Accountability and Budgeting System (IPABS)** — The scheduled March 15 baseline and April 15 budget updates have been rescheduled by DOE-HQ. Communications with RL-MPD indicates the budget data (FY03-04) will be due to RL-MPD on April 30th, with RL review and finalization to DOE-HQ on May 6. The FY05-08 budget data will also be provided, but discussion continues on how this data will be submitted (in IPABS or separate exhibits). DOE-HQ indicates budget data will be seeded where possible (FY03 Congressional data/narratives) and all other data will be streamlined, probably with less milestones and other supporting detail. RL-MPD continues to seek DOE-HQ clarification on how/what/when lifecycle baseline data will be input.

**Laundry Change Request** — An updated laundry cost allocation for FY 2002 has been provided by RL. This update provides more appropriate laundry cost allocations based upon corrected facility assignments by PBS. A baseline change request (BCR) aligning the budget among the PBSs is in FH's internal signature process. In addition, the update consolidated associated service support costs (i.e. truck driver, radiation monitoring) into this allocation.

**River Corridor Project Transition Planning** — P&I provided support input to the development of draft FH River Corridor Transition Plan, which covers the transition of work scope from FH to the new River Corridor Contractor later this year.

**HANford Data Integrator (HANDI) Navigation and Analysis Improvements** — Changes were implemented in HANDI that allow faster WBS navigation and drill down when viewing and printing reports. Also added was a query tool that allows running of ad hoc queries on the HANDI database and convert those queries to Excel for further analysis.

**Performance Module (PERF)** — The modification that allowed us to spread and store monthly cost data for the contract period (FY 2002 - FY 2006) versus the current capability of only the current fiscal year was scheduled for production for month end March reporting. This capability was actually put into production one month earlier for February reporting.

**Scheduling Reference Guide** — The update of the FH Scheduling Reference Guide is complete and is going through final review. This guide provides a summary of the coding requirements and specific process steps utilized by FH to create scheduling products. It is scheduled for a March release.

**Ongoing monthly requirements completed in this reporting period**

- **RL/FH Performance Management Meetings** — Changes have been made to both the content and format of the monthly RL/FH Performance Management Meetings (PMMs). Beginning with the January-status PMM (currently scheduled for March 5, 2002), the new structure's primary focus will be on current and emerging issues, but other topics of specific interest to both RL's and FH's senior management teams will also be addressed. Initiating a greater information exchange than in previous PMMs, both RL and FH intend to address their respective views of FH's performance to date. Topics intended for discussion from both perspectives include FH's Comprehensive Performance Incentives status, cost/schedule performance, major accomplishments, monthly safety status, milestone achievements, and critical issues. On a monthly basis, performance data for the PMMs will be provided in a Project-wide overview format. On a quarterly basis, baseline reviews providing more detailed Sub-project performance information will be held. The first Baseline Review PMM is slated to address March status/performance. The modifications to the PMMs were developed jointly by RL and FH, and are expected to maximize senior management participation, while enhancing timely feedback and increasing focus on key issues.
- **Environmental Management Performance Report (EMPR)** — The December EMPR was provided to RL on February 5 and in bound copy on February 13, as planned.

## Environmental Compliance Program (ECP) WBS 3.4.1.2

**Annual Noncompliance Report** — The Hanford Facility Resource Conservation and Recovery Act of 1976 (RCRA) Permit Annual Noncompliance Report was completed seven days ahead of schedule (Tracked Deliverable ECP-02-704). Input was received from all Hanford prime contractors, Office of River Protection (ORP), and RL. The report was transmitted to RL on February 8, 2002. Contractors and RL signed the report and it was delivered to State of Washington Department of Ecology (Ecology) on February 27, 2002, two days ahead of the due date.

**Calendar Year (CY) 2001 Hanford Site Tier Two Emergency and Hazardous Chemical Inventory** — The final CY 2001 Hanford Site Tier Two Emergency and Hazardous Chemical Inventory was delivered to RL as scheduled on February 22, 2002. After RL certification, the report will be sent by RL to state and local emergency planning and response organizations (Tracked Deliverable ECP-02-502).

**CY 2001 Annual Dangerous Waste Reports** — The final CY 2001 Annual Dangerous Waste Reports were transmitted to RL on February 22, 2002, as scheduled. The final reports will be transmitted by RL to Ecology by March 1, 2002 (Tracked Deliverable ECP-02-503).

**Hanford Air Operating Permit Semi-Annual Report** — The first Hanford Air Operating Permit Semi-Annual Report for RL managed air emission units was certified on February 11, 2002, and transmitted to RL on February 12, 2002, three days ahead of schedule (Tracked Deliverable ECP-02-403). Since then, copies of Bechtel National's and CH2M HILL Hanford Group, Inc.'s (CHG's) Semi-Annual Report information have been received. At the request of RL and ORP, this information is being integrated into the FH document. The integrated document will be submitted to Ecology by March 15, 2002.

**Chemical Management Program Success Story** — The Spent Nuclear Fuels (SNF) Project was in immediate need of a chemical product to perform an important task and ordering it through conventional means was neither timely nor practical. By using the chemical management database, SNF learned that T-Plant had the needed product in inventory. An exchange was made which allowed SNF to perform the task as scheduled. When the SNF chemical procurement is received by conventional means, the chemical product will be transferred to T-Plant to replenish the T-Plant inventory.

**Spill Release Reporting** — Appropriate reporting responses were coordinated for two non-reportable releases of a hazardous substance and/or a petroleum product released to the environment. All of these releases were cleaned up and disposed of per state and federal requirements. There was no reportable event with a release to the environment and four reportable code non-compliance events reported directly to the regulatory agencies by the FH Single-Point-of-Contact.

**Regulator Facility Inspections** — The following regulator facility inspections were coordinated during February:

- February 13, 2002 - Ecology inspection of 90 Day Accumulation Areas at the Fast Flux Test Facility, Waste Sampling and Characterization Facility, and the 100 K Basins
- February 19, 2002 - Washington State Department of Health (WDOH) Inspection of the 384 Bunker Tank in the 300 Area
- February 21, 2002 - WDOH Level II Inspection of the Canister Storage Building

## SYSTEMS ENGINEERING AND INTEGRATION (SE&I) WBS 3.4.1.4

**System Engineering Management System Solution** — In support of the efforts under the Hanford Site Analyses and Models and the Hanford Site Requirements Analysis Reports the following work was accomplished:

- Worked with the FH-Contracts to create a series of "linked" .html files that demonstrate flow down of the requirements from the FH Contract. This work has been placed on the FH Contract's web page.
- Developed population forecasts based on the life cycle baselines for RL and ORP.

**System Engineering Technical Products** — In support of the efforts for Prime Contract Integration the following work was completed:

- Supported the FH Management System Re-alignment Project to reduce the contractor requirements to the necessary and sufficient set to achieve the Project Hanford Management Contract (PHMC) mission.
- Worked to develop a company level procedure for managing interfaces that will satisfy contract requirements and improve the FH business process.
- Worked with the Project representatives to incorporate RL comments on the September 30, 2001 baseline deliverable.

## Information Resource Management (IRM) WBS 3.4.1.5

**Access Control Lists (ACLs) on DOEnet Updated** — At RL's request, DOEnet firewall ACLs were updated to allow access to new DOE project Phoenix Business Management Information System (BMIS) application servers. The application was then installed and tested on a Hanford Local Area Network (HLAN) personal computer.

**Alarm Monitoring System (AMS-N)/Operation & Maintenance** — A new revision of the AMS-N software was installed. This revision added sensors and graphics for the new access area at 2736-ZB. The revision also made several camera assignment changes, changed the text for an assessment, and added a level graphic. In addition, the revision completed corrections to the intrusion detection, operator interface, and sensor loop communication programs in response to several software problem reports.

**Office of Independent Oversight & Performance Assurance (OA) Security Audit Findings** — The resolution for the findings was submitted to RL, closing out the audit. Preparations are being made to perform an annual self-audit.

## Training WBS 3.4.1.6

**Hazardous Waste Training** — Three hundred and eighty-three students were trained in Hazardous Waste handling during February 2002. Classes held to meet Site needs included fourteen 8-hour refreshers, one 24-hour initial, and one 40-hour annual.

**Respiratory Training** — Two hundred and seventy-six students were trained in respiratory protection during February 2002. Twenty-two respiratory protection refresher classes and five respiratory protection initial classes were conducted. In addition, four special respiratory protection classes were added, providing training for twenty-eight students in time to meet work requirements.

**Occupational Safety and Health Training** — Confined Space - Train the Trainer was offered at HAMMER to Hanford personnel. Classes such as this, permit Hanford personnel to take courses locally that in the past would have required travel out of the area.

**Occupational Safety and Health Training** — Thirteen sessions were conducted on various hoisting and rigging topics during the month of February 2002. A total of 113 students attended these courses.

**Emergency Preparedness (EP) Training** — Training supported the following EP activities:

- Hanford Incident Command System Initial Training - 19 students
- Building Emergency Director Training - 18 students
- Emergency Preparedness Drill Coordinator Training - 11 students
- Web-based refresher Training - 36 students

**Support Facility Evaluation Board (FEB)** — Training personnel reviewed and updated the Training Performance Objectives and Criteria (POC) for the FEB. The POC are used as the basic lines of inquiry by the FEB in their assessments of facilities and projects.

**Nuclear Safety Training** —

- Ten sessions of Nuclear Criticality Safety were held for 55 students during February 2002.
- Forty-seven sessions of Radiation Worker Training were held during February 2002. One hundred twenty-two students attended 22 sessions of Initial Radiation Worker Training and 227 students attended 21 sessions of Radiation Worker Retraining.

**Continuous Improvement of Training** — On February 18, version 4.0 of the HAMMER web-based Courseware Management System (HAMMERCMS) was released for Site use. Forty-three courses ranging from Hanford General-Employee Training (HGET) to Qualification Training to facility specific orientations were running in this release on that date. Version 4.0 is much more robust than earlier versions, retaining more information and better logs. In addition, while written to the Site standard Internet Explorer 5.5 browser, early results indicate the system runs well even on older machines running Internet Explorer 4.0.

## BREAKTHROUGHS / OPPORTUNITIES FOR IMPROVEMENT

### Breakthroughs

**Information Resource Management - Virtual Knowledge Center (VKC) Project Status** — The VKC project provides a suite of technologies that allows simple and easy access to information from a multitude of databases and systems through a portal. Capabilities include electronic signatures, electronic workflow, electronic records management, electronic document management, and portals for searching for documents/records. In FY2002, there are several pilot projects (co-sponsored by FH, CHG, RL, and ORP), to evaluate these technologies. Training for automating the CHG procedures process in the VKC-IDMS project was completed. This initial application is scheduled for implementation in mid-April.

### Opportunities for Improvement

Nothing to report.

## UPCOMING ACTIVITIES

### Planning & Integration

- The Annual Lifecycle Baseline Update to RL and DOE-HQ - Due April-May 2002
- The Budget Request to RL and DOE-HQ - Due in May 2002
- Support to Life Cycle Cost Reduction

### Environmental Compliance Program

- Biennial Assessment of Information and Data Access Needs - Due March 31, 2002
- Quarter 3 Hanford Facility RCRA Permit Class I Modification Notification - Due April 1, 2002
- Annual Nonradioactive Airborne Emissions Report - Due April 2, 2002
- Quarter 3 National Emission Standards for Hazardous Air Pollutants (NESHAP) Status Report - Due April 22, 2002
- AOP Annual Compliance Certification Report - Due May 30, 2002

### Systems Engineering & Integration

- In response to Project comments on the Technical Baseline, SE&I is working to improve the Hanford Site Technical Database (HSTD) functional analysis - Due June 2002

### Information Resource Management

- Wireless Communications Plan - Due March 31, 2002
- Long Range Operating Plan - Due March 31, 2002



### Training

- Assess the effectiveness of the crosswalk between competencies and training needs for the internal procedure (IP)-1184, Automated Job Hazard Analysis (AJHA), (Automated) Employee Job Task Analysis (EJTA), and Integrated Training Employee Matrix (ITEM) to include the level of use at the facilities, customer satisfaction, and value added. Compile data from the facilities to show where it is being used to ensure proper training is being provided to the proper people at the proper time - Due March 31, 2002.
- "Determine if Vivid Learning Systems contract should be re-competed at contract expiration based on feedback from RL, ORP, and all contractors who use their service. Complete analysis by March 31, 2002." The due date is pending change request approval to revise to May 31, 2002.

## MILESTONE ACHIEVEMENT

There are no milestones (EA, DOE-HQ, or RL) in FY 2002 for this PBS.

## FY 2002 SCHEDULE / COST PERFORMANCE – ALL FUND TYPES FY TO DATE STATUS – (\$000)

		FYTD							
	By PBS	BCWS	BCWP	ACWP	SV	SV%	CV	CV%	BAC
PBS SS01									
WBS 3.4.1.1	P&I	1571	1591	1364	20	2%	227	15%	3,989
WBS 3.4.1.2	ECP	3797	3797	3390	0	0%	407	11%	9,297
WBS 3.4.1.4	SE&I	270	270	271	0	0%	-1	-1%	887
WBS 3.4.1.5	IRM	4277	4277	4665	0	0%	-388	-10%	10,408
WBS 3.4.1.6	Training	2031	2079	1922	47	3%	157	8%	5,171
	Total	11946	12014	11611	67	1%	403	4%	29,753

## FY TO DATE SCHEDULE / COST PERFORMANCE

All schedule variances in PBS RL-SS01 are within established thresholds. The \$0.4M (4 percent) favorable cost variance is discussed in the Cost Variance Analysis portion of this report.

For all active sub-PBSs and TTPs associated with the Operations/Field Office, Fiscal Year to Date (FYTD) Cost and Schedule variances exceeding + / - 10 percent or one million dollars require submission of narratives to explain the variance.

### Schedule Variance Analysis: (\$0.07M)

All schedule variances are within established thresholds.

## Cost Variance Analysis: (+\$0.40M)

### PLANNING & INTEGRATION

**Description/Cause:** The favorable cost variance is due to reserve identified in the baseline to be reallocated to higher priority work in other projects.

**Impact:** There is no significant project impact at this time.

**Corrective Action:** None at this time.

### ENVIRONMENTAL COMPLIANCE PROGRAM

**Description/Cause:** The favorable cost variance is due to labor and procured services being less than anticipated to date. Part of the labor underrun is due to the planned Part B permit renewal activities being behind schedule.

**Impact:** Recent contracts have been placed and labor is anticipated to increase towards the second half of the year as staff that have been supporting Projects return to complete the ECP deliverables. Approximately \$100K of Part B permit renewal workscope may be carried over to FY 2003.

**Corrective Action:** None at this time.

### SYSTEMS ENGINEERING AND INTEGRATION

**Description/Cause:** The cost variance is within established thresholds and within the plan.

**Impact:** There is no project impact at this time.

**Corrective Action:** None at this time.

### INFORMATION RESOURCE MANAGEMENT

**Description/Cause:** The cost variance is within established thresholds.

**Impact:** There is no project impact at this time.

**Corrective Action:** None at this time.

### TRAINING

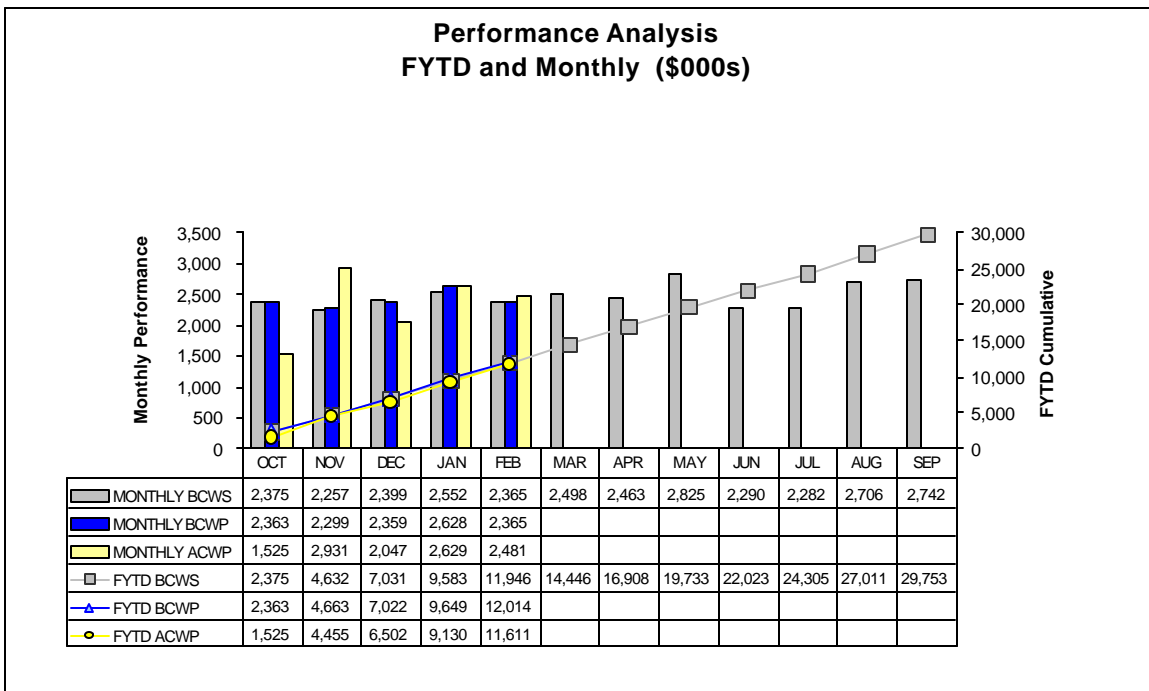
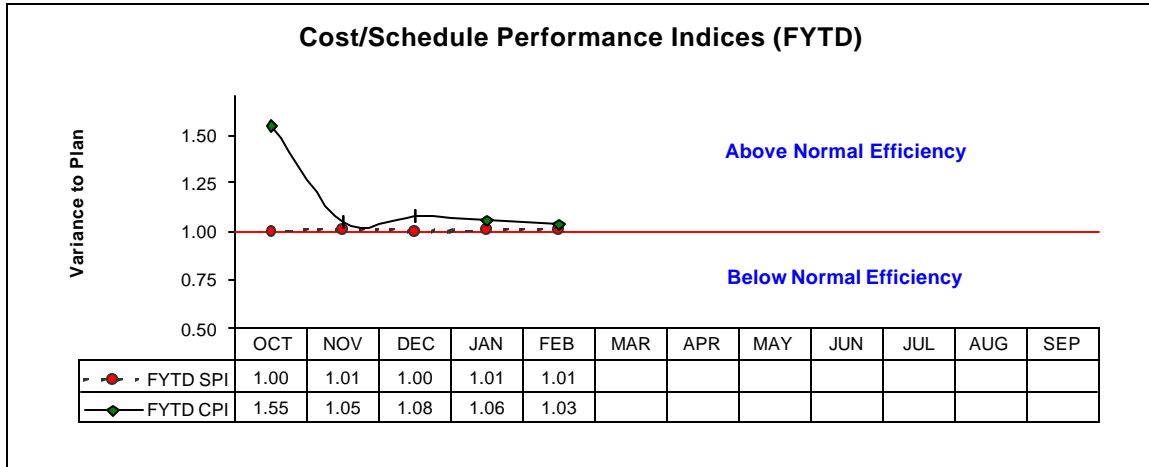
**Description/Cause:** The cost variance is within established thresholds and within the plan.

**Impact:** There is no project impact at this time.

**Corrective Action:** None at this time.



## COST / SCHEDULE PERFORMANCE (MONTHLY AND FYTD)



## FUNDS MANAGEMENT

### FYTD FUNDS VS SPENDING FORECAST (\$000)

	FH Funds Reallocation	FYSF	Variance
<b>3.4.1 Site Integration</b>			
SS01			
Post 2006      - Operating	\$ 27,393	\$ 28,015	\$ (622)
<b>Total</b>	\$ 27,393	\$ 28,015	\$ (622)

[Status through February 2002]

Note: FH Reallocation reflects an FYSF adjusted for scope deletions, deferrals, and identified savings to address funding shortfalls, additional unplanned scope, and cost increases.

## ISSUES

### TECHNICAL ISSUES

None to report.

### REGULATORY ISSUES

**Issue: Annual Land Disposal Restrictions (LDR) Reporting** — FH is responsible for the coordination and integration of the annual Hanford Site LDR Report with each Hanford Site contractor (CHG, Bechtel Hanford Inc. [BHI], Pacific Northwest National Laboratory [PNNL]) remaining responsible for the accuracy of their data contained in the document. The 2000 LDR Report was delivered to RL on June 25, 2001, in accordance with our contractual baseline and Tri-Party Agreement (TPA) Milestone M-26-01K. Ecology found the document incomplete and took the position that some of the most critical requirements of the LDR Report were omitted such as schedules and milestones for characterization and treatment of particular waste streams. Ecology initiated the TPA dispute resolution process on November 28, 2001.

**Impacts:** The 2001 LDR Report is currently in preparation and is scheduled to be issued on April 30, 2002. The above dispute may require modifications to the 2001 report, which will require an extension to the April 30th issue date.

**Corrective Action:** The dispute resolution process was extended to March 14, 2002, to continue work at the project manager's level. Ecology and RL agreed to conduct either a tabletop exercise or an actual assessment using the dangerous waste regulations. The intent of this exercise is to provide the timeframe and resource requirements. The agreements/commitments/ expectations/etc. will be formalized and signed by RL and Ecology. RL and Ecology agreed that a mass reprinting of the final CY 2000 LDR Report will not be required and will be handled via distribution of errata sheets. In addition, the CY 2001 Report will be similar to the CY 2000 LDR Report.

**Issue: Insignificant Emission Units (IEUs)** — On January 2, 2002, U.S. Environmental Protection Agency (EPA) published in the Federal Register a Notice of Deficiency (NOD) regarding the State of Washington's Air Operating Permit Program (Title V program). In sum, EPA has concerns with the state program allowing permittees not to monitor emission units classified as IEUs. There are numerous IEUs on the Hanford Site (includes small internal combustion engines, restroom vents, etc.), and monitoring and associated record keeping could be onerous.

**Impacts:** None at this time.

**Corrective Action:** Ecology, EPA, and Washington State business representatives met to discuss the issues surrounding the NOD. Ecology proposed language to amend its regulations. The language would obligate Ecology to evaluate the need for monitoring IEUs on a case-by-case basis, rather than providing the blanket waiver that is essentially now in the rules. EPA appeared generally receptive to the proposal. For Hanford, this could result in little to no additional monitoring given the distance between most IEUs and populated areas.

## External and DOE Issues and DOE Requests

None to report.

## BASLINE CHANGE REQUESTS CURRENTLY IN PROCESS

**Baseline Change Log**

BCR No./ Level 4 WBS	Date Originated	Description	Impact		Date Approved	Status
			Days	Dollars (\$000s)		
SS01-02-001 3.4.1.1	2/8/02	Baseline Assumptions Adjustments		-59.5		In Process
SS01-02-002 3.4.1.2	2/8/02	Baseline Assumptions Adjustments		-34.0		In Process
SS01-02-003 3.4.1.5	2/8/02	Baseline Assumptions Adjustments		-206.8		In Process
SS01-02-004 3.4.1.6	2/8/02	Baseline Assumptions Adjustments		-108.0		In Process
SS01-02-005 3.4.1.4	2/8/02	Baseline Assumptions Adjustments		-4.0		In Process
SS01-02-006 3.4.1.6	2/26/02	Revision to Contract Statement of Work and Deliverable		0.0		In Process

NOTES: "Impact" refers to the impact in terms of the number of days or dollars changing from the 9/30/01 baseline.  
"Date Approved" refers to date of change as approved by final approval authority.